

CLAIMS

Sub B1
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1. A multilayer polymer film including two or more layers, which, at a first sealing temperature, forms a peelable bond and, at a second higher sealing temperature, forms a permanent bond, characterized in that one of the two outer layers has a matrix phase polymer system, whereby the matrix polymer is a polyethylene homopolymer, a polyethylene copolymer, a polypropylene homopolymer, or a polypropylene copolymer and the phase polymer is a styrene ethylene/butylene styrene triblock polymer (SEBS) with a styrene ethylene/butylene diblock component (SEB), a styrene ethylene/propylene styrene triblock polymer (SEPS), a styrene butadiene styrene triblock polymer (SBS), and/or a styrene isoprene styrene triblock polymer (SIS), and/or ethylene α -olefin copolymer.

Sub D2
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2. The multilayer film according to Claim 1, characterized in that the multilayer film is a co-extruded multilayer film.

Sub D3
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3. The multilayer film according to Claim 1 ~~or 2~~, characterized in that the multilayer film has two to seven layers.

Sub B2
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~~claim 4.1~~ 4.1. The multilayer film according to ~~one of claims 1 through 3~~, characterized in that the phase polymer may also have a processing aid.

Sub D5
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~~claim 15.~~ 15. The multilayer film according to ~~one of claims 1 through 4~~, characterized in that the proportion of the phase polymer is in the range from 1 to 40 wt.-%, based on the matrix-phase polymer system.

Sub C² ~~claim 16.~~ The multilayer film according to ~~one of~~
~~Claims 1 through 5,~~ characterized in that the multilayer
3 film has a gas barrier for oxygen and carbon dioxide as
4 well as a water vapor barrier layer.

Sub B³ 7. A multichamber medical bag (1) made of
1 a polymer material for preparation of medical mixed
2 solutions, which has at least two chambers (8 and 9),
3 which are separated from each other by a sealed
4 separation zone (7) to be opened and are sealed in the
5 outer border zone (2, 3), whereby in the seam of the
6 outer border zone at least one tube (4) is provided in
7 at least one chamber, characterized in that it is
8 fabricated from a multilayer polymer film according to
9 ~~Claims 1 through 6.~~

Sub C⁴ 8. The multichamber bag according to Claim
1 ~~7,~~ characterized in that the seam is separable in the
2 separation zone (7) with a force which is in the range
3 from 5 to 20 N and the seam in the outer border zone (2,
4 3) is inseparable.

Sub B⁴ 1 ~~claim 9.~~ The multichamber bag according to ~~one~~
2 ~~of Claims 7 through 8,~~ characterized in that it is heat
3 sterilizable.

Sub B⁴ 10. The multichamber bag according to one
2 of Claims 7 through 9, characterized in that in addition
3 to the discharge tube (4) each chamber to be filled also
has at least one filling tube (5, 6), which is disposed
in the seam of the outer border zone (2, 3).

Sub C⁵ 11. The multichamber bag according to ~~one~~
~~of the preceding claims,~~ characterized in that the outer
3 wall in the chamber separation zone is provided with at

1 least one tear tab (10), preferably with two tear tabs
2 (10).

1 12. Use of a multichamber medical bag
2 according to ~~one of Claims 7 through 11~~ for preparation
3 of mixed solutions for dialysis, infusion, or nutrition.

Add
B5

Add
D10